

ABSTRACT OF THE DISCLOSURE

There is provided an electric discharge gas laser comprising a housing containing a laser gas; a rotating fan provided in the housing to circulate the gas in the housing; a bearing device for magnetically supporting a rotating shaft of the rotating, the bearing device being provided with a sensor device comprising a sensor for sensing the position of the rotating shaft to generate signals indicating the position of the rotating shaft, and a signal processor for receiving and processing the signals delivered from the sensor to output processed signals; and a control separated from the bearing device and functionally associated with the bearing device to receive the processed signals from the sensor device for controlling the bearing device on the basis of the processed signals.